

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 101539,527  
Source: IPW0  
Date Processed by STIC: 10/3/06

***ENTERED***



IFWO

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/10/539,527**

**DATE: 10/03/2006**  
**TIME: 10:13:53**

**Input Set : A:\ENDOC.011APC.txt**  
**Output Set: N:\CRF4\10032006\J539527.raw**

4 <110> APPLICANT: GIRARD, Jean-Philippe  
 5 AGUILAR, Luc  
 6 ERARD, Monique  
 7 HARALDSEN, Guttorm  
 8 BAEKKEVOLD, Espen  
 9 VAEGER, Marjan  
 10 BRANDTZAEG, Per  
 12 <120> TITLE OF INVENTION: NF-HEV COMPOSITIONS AND METHODS OF USE  
 15 <130> FILE REFERENCE: ENDOC.011APC  
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/539,527 *(Upg. 6)*  
 C--> 17 <141> CURRENT FILING DATE: 2005-06-17  
 17 <150> PRIOR APPLICATION NUMBER: US 60/435827  
 18 <151> PRIOR FILING DATE: 2002-12-19  
 20 <160> NUMBER OF SEQ ID NOS: 49  
 22 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 2645  
 26 <212> TYPE: DNA  
 27 <213> ORGANISM: Homo sapiens  
 29 <400> SEQUENCE: 1  
 30 cacaagaata ctgaaaaatg aagcctaaaa tgaagtattc aaccaacaaa atttccacag 60  
 31 caaagtggaa gaacacagca agcaaagcct tgtgttcaa gctggaaaa tcccaacaga 120  
 32 aggccaaaga agtttgc(cc atgtactttt tgaagctccg ctctggcctt atgataaaaa 180  
 33 aggaggcctg ttacttttagg agagaaacca ccaaaaggcc ttcaactgaaa acaggttagaa 240  
 34 agcacaaaag acatctggta ctcgctgcct gtcaacagca gtctactgtg gagtgcttg 300  
 35 ccttggtat atcaggggtc cagaaatata cttagacact tcatgattca agtatcacag 360  
 36 gaatttcacc tattacagag tatcttgctt ctctaaggcac atacaatgtat caatccatta 420  
 37 ctttgctt ggaggatgaa agttatgaga tatatgtta agacttgaaa aaagatgaaa 480  
 38 agaaaagataa ggtgttactg agttactatg agtctcaaca cccctcaaat gaatcagggtg 540  
 39 acggtgttga tggtaagatg ttaatggtaa ccctgagtcc tacaaaagac ttctggttgc 600  
 40 atgccaacaa caaggaacac tctgtggagc tccataagtg taaaaaacca ctgccagacc 660  
 41 aggccttctt tgtccttcat aatatgcact ccaactgtgt ttcatttggaa tgcaagactg 720  
 42 atcctggagt gttttaggt gtaaaggata atcatcttgc tctgattaaa gtagactctt 780  
 43 ctgagaattt gtgtactgaa aatatcttgc ttaagcttc tggaaacttag ttgatggaaa 840  
 44 cctgtgagtc ttgggtttag tacccaaatg ctaccactgg agaaggaatg agagataaag 900  
 45 aaagagacag gtgacatcta agggaaatga agagtctta gcatgtgtgg aatgtttcc 960  
 46 atattatgtt taaaaatatt ttttctaattc ctccagttat tcttttattt ccctctgtat 1020  
 47 aactgcattt tcaatacaga tatcagtata ttaaataggg tattggtaa gaaacggtca 1080  
 48 acattctaaa gagatacagt ctgacctta ctttctctt gttcagttcc agaaagaact 1140  
 49 tcataattttag agctaaggcc actgaggaaa gagccatagc ttaagtctct atgtagacag 1200  
 50 ggttccattt taaagagcta ctttagagaaa taatttcca cagttccaaa cgataggctc 1260  
 51 aaacactaga gctgcttagta aaaagaagac cagatgttc acagaattat catttttca 1320  
 52 actggaataa aacaccaggt ttgtttgttag atgtcttagg caacactcag agcagatctc 1380

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104 cttataataa aatgccaaat gcctccgcag atgccccagg caaccctcag atcagccctt 1380
105 tctgtgaaga gtggcggtac ctgtgcttgt ttccttctta aacctccaat tttctcttt 1440
106 taacacattt aacatTTAAC tttAGCAAG ccagcttaca ttAGGAAGTG aaAGACATT 1500
107 tagttcccac ccgtgattga aatcattgac tataCTCAAC aagCTTAAAG tctCCGTAA 1560
108 gaactgatca ggatatacac taggacatgc caatAGAATG gGATCTCATG gtGAGTCG 1620
109 aAGCCCTCCA actggagaga CGCTAACATC ATCCCTCTCG CTGATTCCA aggAGCTATG 1680
110 actttggatq catgcattcq otggatgag atgtctcgcc tgcttgctt ccttatgcac 1740
111 acgttctgtt cagcttcaca gcagcaatgc tcacgggttga atagcttagc ttagcttcty 1800
112 ccccttcttt ggttctttt accaccatat ccgtAACGGC tctcctactc cctcAGCTT 1860
113 ctttctcttt gctctgacgt ctatATGCCT ACACACTT tccactgtct ttaccctgca 1920
114 ctgcagaattt tacatctac ctactggta ccaggttgc ccctgaacaa ccttcctttg 1980
115 tgTTTACTG ttatTTAAAGT agtaatattt gtattcaacc atgttagtaat attttaAGCC 2040
116 actaaaggaa tagTTTACT tatttagaca acagcaattt ctactacatt ttataAGCT 2100
117 taaaacttac atgtttAAA actttAAACG ataAGACAA taACAACATT gatggAGGT 2160
118 gatATGACAG ttcagaaaagg gttagcttt atctccagt cgagggAAACC tattgtatac 2220
119 aatAGCTGGA ggaATGATG atcaaAGAGG ccggAAACC CGGTGTagGA tcgtacggct 2280
120 gtaacaggta taattgttca attaattttt cacagtctt ctgtAGAGGA atgAAAGGC 2340
121 ggaatctgcg tcattcctct ggAAACCACA gtgttgactc tgtGAATCTG tacgatatct 2400
122 ttAAAGTAGT aactaaGTAG tcaaATGTGT tcttqacgtt gttcataact ttGAATAAAC 2450
123 cattttcaa aaccacgtgt gaccac 2486
125 <210> SEQ ID NO: 3
126 <211> LENGTH: 2714
127 <212> TYPE: DNA
128 <213> ORGANISM: Canis familiaris
130 <400> SEQUENCE: 3
131 ttcagaggag aaatcaaaac aagattacac gaagcttcaa caacaaAGGC taaaatGAAG 60
132 tattcaacca cggAAATCCC CCCAGCAAAG atgaacAGTT cagcagacAA ggctttggta 120
133 aaatctccta agctgagaaa atcccAACAG aagcctGAAG gagTTTGCCTA gatgtacttt 180
134 atgcaactgc gttctggcct tatcatAGAA aagACATCTT gttactttAG gaaAGAAATC 240
135 accAAAAGGT attcACCAAG AACAGCTGAA aagtgcAGAA agcaatgtct ggtattcact 300
136 gcctgtcatc agcagctgaa cAAAGATTc acctctgatg tccctatgtt acagAAATGT 360
137 tttggaaAGAG ctaatgttcc aagtatccaa gaatattctg cttctctgag cacatACAAT 420
138 gatcaatcta ttactttcgt tttgaggat ggaAGTTATG agatctatgt agaAGACTTG 480
139 -agaaaaggcc-aagagaaaAGA taaggttta-ttcgttatt-atgattccca-atccccctca 540
140 catgaaACAG gtGATGATGT tgatggccAG acgttattgg taaACCTGAG tcotacaaaa 600
141 gataaAGATT ttttgctgca tgccAAACAC gaggAACATT ctgtggAGCT acaaaaATGT 660
142 gaaaACCAAT tgccAGACCA ggccttcttc ctccttcata ggaAGTCTC tgaatgtgtt 720
143 tcattcgaat gtaAGAACAA tcctggAGTG tttatAGGAG taaAGGATAA ccacCTTGCT 780
144 ttaattAAAG taggAGACCA aactaAGGAT tcatatATAG agAAAACCAT attaAGCTC 840
145 tcttaAAATT aatGGGATGA AAAAGTTGT caatCCTGGG ttgggtAGCC cagatAGCTA 900
146 ctgctgaaga aagaataAGA gataAAAGAGA tagacaACAT ttaAGGGAAA taaAGAGTAC 960
147 ttatGATGCT atgGAATGTT tttcttatta tGtGTTAAAT atatTTTAT aatCCTTCAG 1020
148 ttctgtttt tattaccctt gtctcaCTAC atattcaata gtgttattt aaggAGACCT 1080
149 cagAAAATAT acaACCTGAC ttttactttt tctacttgct gtcaAGAAAG agCTTAATAT 1140
150 ctaattaAGC tctgctgaga cctctgggGA caAGGAAGGG ccttaatCCA agtttCATT 1200
151 tagacaAGGA tttcaAAAAG ccACATAGAG acataATTt ccctggTTCC aaacaAGTTC 1260
152 aaACAGTGA GCTGTTGGTG AAAAGACAAT cagctctact tagactGAAC atttcACAAA 1320
153 tggAAATAAAA caccaaATTt gttGAAGAT tcccaaAttT tcAGATACT acACATGTAG 1380
154 gcAGATAATA taaatATGTG aatGACAGA gacaATTGAA AAAATTAAGA AAAATAAAATC 1440

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155 ctgtatttgt aaagtaaata atttacctc taattgttc atttttaaaa tgctgatttt 1500  
 156 tatagatgga gttaaattt gcaagacatt cttacattag gaagtaaaat aaattttatc 1560  
 157 tcagacatat aattgaaatc attggaaata tctcacaaac taaaacatta ttttaagca 1620  
 158 ctgagacaca acataccctt agacatcaa gtaccatggg atccaagtac catggagg 1680  
 159 ccacaagttc ccttatctac tagaacctag attggacaca gcattaacat tacaatttt 1740  
 160 ataactggct atcccttatg ttcatgtat actgtcttc tgactctatg ctccaggat 1800  
 161 ctgtaacttg atatacatgt caccctgcac aaaattctt ataatcctt cttaccatgt 1860  
 162 gtacaagtgt tttctgtc caccttcctg attagtg ttactatgaa atattttatg 1920  
 163 acttttcttc cttcatttctt ttgaccaac tctgttctt atatacattt tggccccgt 1980  
 164 gagtttcatt ccataccacc tgacctctgg acaccaacat attttctat tttgtctctc 2040  
 165 ttagttagaa tttcacataa gcctattgtat gggaaatattt ttattaaac atctttgtat 2100  
 166 ttacattac taaggttagta aaatttatttcaacacgat atgatttttc aactactaaa 2160  
 167 ggaataattt ttgcttattt taagtcttaa attctactat aacttttca taggcttaac 2220  
 168 attgacaata agtgataaaac tagtaacaga atacttatga aataacaactg tttctgaaag 2280  
 169 tggcctt ttaattctaa ttgttgaga tctatggat ataatgatgg tggAACATAA 2340  
 170 gattagaaag gctgagaatt actgagtgag ggtaaacaaat tggaaacaac atagcttca 2400  
 171 ttacattgtc agttttatta tgaagacaaa aataaaagca gaatatatat catctctc 2460  
 172 gaaaaacact aaatgtgac catatgcac tggatgat atctgaaatg atttgtttt 2520  
 173 agtaactaaa tatattaaattt acattaaattt ctcagttt atttttttttt agtatgtgag 2580  
 174 gcatgatga ttttatcata aaataactat tctgaaatttttaatgtcaaa gcaatcttac 2640  
 175 cttaatccac tggatgttggat atctgggtt ggtcattgtt ctggtgattc aaaactaaat 2700  
 176 aagatattcc aaag 2714  
 178 <210> SEQ ID NO: 4  
 179 <211> LENGTH: 270  
 180 <212> TYPE: PRT  
 181 <213> ORGANISM: Homo sapiens  
 183 <400> SEQUENCE: 4  
 184 Met Lys Pro Lys Met Lys Tyr Ser Thr Asn Lys Ile Ser Thr Ala Lys  
 185 1 5 10 15  
 186 Trp Lys Asn Thr Ala Ser Lys Ala Leu Cys Phe Lys Leu Gly Lys Ser  
 187 20 25 30  
 188 Gln Gln Lys Ala Lys Glu Val Cys Pro Met Tyr Phe Met Lys Leu Arg  
 189 35 40 45  
 190 Ser Gly Leu Met Ile Lys Lys Glu Ala Cys Tyr Phe Arg Arg Glu Thr  
 191 50 55 60  
 192 Thr Lys Arg Pro Ser Leu Lys Thr Gly Arg Lys His Lys Arg His Leu  
 193 65 70 75 80  
 194 Val Leu Ala Ala Cys Gln Gln Ser Thr Val Glu Cys Phe Ala Phe  
 195 85 90 95  
 196 Gly Ile Ser Gly Val Gln Lys Tyr Thr Arg Ala Leu His Asp Ser Ser  
 197 100 105 110  
 198 Ile Thr Gly Ile Ser Pro Ile Thr Glu Tyr Leu Ala Ser Leu Ser Thr  
 199 115 120 125  
 200 Tyr Asn Asp Gln Ser Ile Thr Phe Ala Leu Glu Asp Glu Ser Tyr Glu  
 201 130 135 140  
 202 Ile Tyr Val Glu Asp Leu Lys Lys Asp Glu Lys Lys Asp Lys Val Leu  
 203 145 150 155 160  
 204 Leu Ser Tyr Tyr Glu Ser Gln His Pro Ser Asn Glu Ser Gly Asp Gly  
 205 165 170 175

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Input Set : A:\ENDOC.011APC.txt  
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206 Val Asp Gly Lys Met Leu Met Val Thr Leu Ser Pro Thr Lys Asp Phe  
207 180 185 190  
208 Trp Leu His Ala Asn Asn Lys Glu His Ser Val Glu Leu His Lys Cys  
209 195 200 205  
210 Glu Lys Pro Leu Pro Asp Gln Ala Phe Phe Val Leu His Asn Met His  
211 210 215 220  
212 Ser Asn Cys Val Ser Phe Glu Cys Lys Thr Asp Pro Gly Val Phe Ile  
213 225 230 235 240  
214 Gly Val Lys Asp Asn His Leu Ala Leu Ile Lys Val Asp Ser Ser Glu  
215 245 250 255  
216 Asn Leu Cys Thr Glu Asn Ile Leu Phe Lys Leu Ser Glu Thr  
217 260 265 270  
220 <210> SEQ ID NO: 5  
221 <211> LENGTH: 266  
222 <212> TYPE: PRT  
223 <213> ORGANISM: Mus musculus  
225 <400> SEQUENCE: 5  
226 Met Arg Pro Arg Met Lys Tyr Ser Asn Ser Lys Ile Ser Pro Ala Lys  
227 1 5 10 15  
228 Phe Ser Ser Thr Ala Gly Glu Ala Leu Val Pro Pro Cys Lys Ile Arg  
229 20 25 30  
230 Arg Ser Gln Gln Lys Thr Lys Glu Phe Cys His Val Tyr Cys Met Arg  
231 35 40 45  
232 Leu Arg Ser Gly Leu Thr Ile Arg Lys Glu Thr Ser Tyr Phe Arg Lys  
233 50 55 60  
234 Glu Pro Thr Lys Arg Tyr Ser Leu Lys Ser Gly Thr Lys His Glu Glu  
235 65 70 75 80  
236 Asn Phe Ser Ala Tyr Pro Arg Asp Ser Arg Lys Arg Ser Leu Leu Gly  
237 85 90 95  
238 Ser Ile Gln Ala Phe Ala Ala Ser Val Asp Thr Leu Ser Ile Gln Gly  
239 100 105 110  
240 Thr Ser Leu Leu Thr Gln Ser Pro Ala Ser Leu Ser Thr Tyr Asn Asp  
241 115 120 125  
242 Gln Ser Val Ser Phe Val Leu Glu Asn Gly Cys Tyr Val Ile Asn Val  
243 130 135 140  
244 Asp Asp Ser Gly Lys Asp Gln Glu Gln Asp Gln Val Leu Leu Arg Tyr  
245 145 150 155 160  
246 Tyr Glu Ser Pro Cys Pro Ala Ser Gln Ser Gly Asp Gly Val Asp Gly  
247 165 170 175  
248 Lys Lys Leu Met Val Asn Met Ser Pro Ile Lys Asp Thr Asp Ile Trp  
249 180 185 190  
250 Leu His Ala Asn Asp Lys Asp Tyr Ser Val Glu Leu Gln Arg Gly Asp  
251 195 200 205  
252 Val Ser Pro Pro Glu Gln Ala Phe Phe Val Leu His Lys Lys Ser Ser  
253 210 215 220  
254 Asp Phe Val Ser Phe Glu Cys Lys Asn Leu Pro Gly Thr Tyr Ile Gly  
255 225 230 235 240  
256 Val Lys Asp Asn Gln Leu Ala Leu Val Glu Glu Lys Asp Glu Ser Cys  
257 245 250 255

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 10/03/2006  
PATENT APPLICATION: US/10/539,527                   TIME: 10:13:54

Input Set : A:\ENDOC.011APC.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; N Pos. 6352,6353,6354,6355,6356,6357,6358,6359,6360,6361,6362,6363  
Seq#:8; N Pos. 6364,6365,6366,6367,6368,6369,6370,6371,6372,6373,6374,6375  
Seq#:8; N Pos. 6376,6377,6378,6379,6380,6381,6382,6383,6384,6385,6386,6387  
Seq#:8; N Pos. 6388,6389,6390,6391,6392,6393,6394,6395,6396,6397,6398,6399  
Seq#:8; N Pos. 6400,6401,6402,6403,6404,6405,6406,6407,6408,6409,6410,6411  
Seq#:8; N Pos. 6412,6413,6414,6415,6416,6417,6418,6419,6420,6421,6422,6423  
Seq#:8; N Pos. 6424,6425,6426,6427,6428,6429,6430,6431,6432,6433,6434,6435  
Seq#:8; N Pos. 6436,6437,6438,6439,6440,6441,6442,6443,6444,6445,6446,6447  
Seq#:8; N Pos. 6448,6449,6450,6451  
Seq#:17; N Pos. 26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45  
Seq#:17; N Pos. 46,47,48,49,50,51,52

VERIFICATION SUMMARY  
PATENT APPLICATION: US/10/539,527

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L:17 M:270 C: Current Application Number differs, Replaced Current Application No  
L:17 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:603 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
L:609 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8  
L:715 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:6300  
L:716 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:6360  
L:717 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:6420  
L:896 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:17  
L:897 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0